3. WALL MOUNTED TYPE ROOM AIR-CONDITIONER

(Split system, Air cooled cooling only type)

SRK501CENF-L, SRK561CENF-L

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3.1 GENERAL INFORMATION

3.1.1 Specific features

The "Mitsubishi Daiya" room air conditioner: **SRK series** are of split and wall mounted type and the unit consists of indoor unit and outdoor unit with refrigerant precharged in factory. The indoor unit is composed of room air cooling or heating equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(1) Remote control flap

The flap can be automatically controlled by operating wireless remote control.

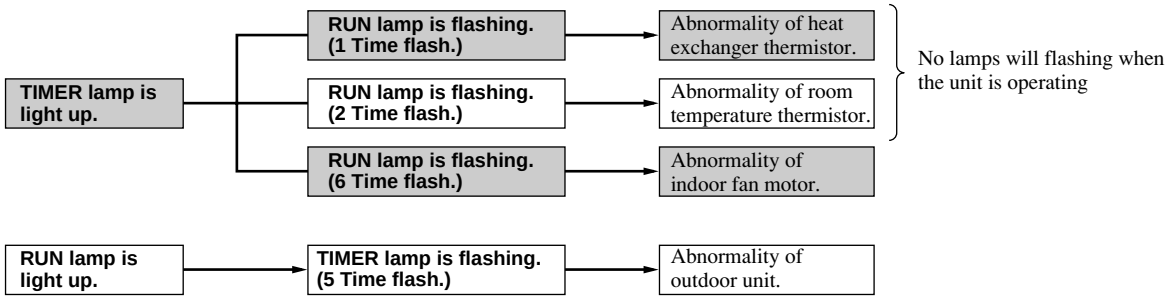
- AUTO (Natural flow) : Flap operation is automatically controlled.
- Swing : This will swing the flap up and down.
- Memory flap : Once the flap position is set , the unit memorizes the position and continues to operate at the same position from the next time.

(2) Automatic Operation

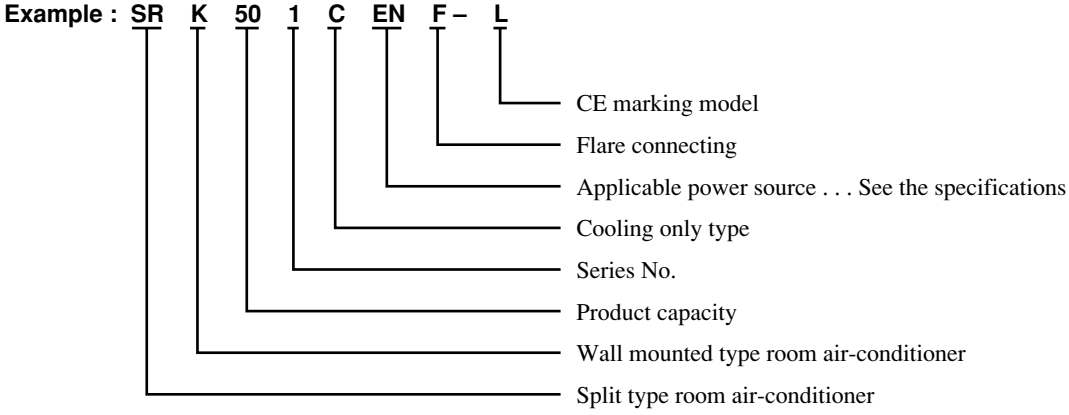
When the remote control switch is set on " auto ", it will either automatically decide operation mode such as cooling, heating and thermal dry, or operate in the operation mode before it has been turned to automatic control.

(3) Self diagnosis Function

We are constantly trying to do better service to our customers by installing such judges that show abnormality of operation as follows.


TIMER lamp is light up.
RUN lamp is flashing. (1 Time flash.)
Abnormality of heat exchanger thermistor.
RUN lamp is flashing. (2 Time flash.)
Abnormality of room temperature thermistor.
RUN lamp is flashing. (6 Time flash.)
Abnormality of indoor fan motor.
No lamps will flashing when the unit is operating
RUN lamp is light up.
TIMER lamp is flashing. (5 Time flash.)
Abnormality of outdoor unit.

3.1.2. How to read the model name


Example : SR K 50 1 C EN F – L
CE marking model
Flare connecting
Applicable power source . . . See the specifications
Cooling only type
Series No.
Product capacity
Wall mounted type room air-conditioner
Split type room air-conditioner

3.2 SELECTION DATA

3.2.1 Specifications

Model SRK501CENF-L (Indoor unit)
SRC501CENF-L (Outdoor unit)

Item			Model	SRK501CENF-L	SRC501CENF-L
	Cooling capacity(1)		W	4500/4500	
	Power source			1 Phase, 220/240V, 50 Hz	
Operation data(1)	Cooling input		kW	1.78/1.88	
	Running current (Cooling)		A	8.4/8.2	
	Inrush current		A	39/42	
	COP (In cooling)			2.53/2.39	
	Noise level(5)		dB (A)	44/44	50/51
	Exterior dimensions Height × Width × Depth		mm	275 × 790 × 189	615 × 850 × 290 + 30
	Color			Ivory white	Polar white
	Net weight		kg	9	52
	Refrigerant equipment Compressor types & Q'ty			–	RM5523GNE4 (Rotary type) × 1
	Motor		kW	–	1.7
	Starting method			–	Line starting
	Heat exchanger			Louver fins & tubing	
	Refrigerant control			Capillary tubes	
	Refrigerant(4)		kg	R22 1.28	
	Refrigerant oil		ℓ	0.7 (BARREL FREEZE 32SAM)	
	Air handling equipment Fan type & Q'ty			Tangential fan × 1	Propeller fan × 1
	Motor		W	23	40
	Air flow (at High)		CMM	11/11	34/34
	Air filter, Q'ty			Polypropylene net (washable) × 2	–
	Shock & vibration absorber			–	Cushion rubber (for compressor)
	Electric heater			–	–
	Operation control Operation switch			Wireless-Remote controller	–
	Room temperature control			MC. Thermostat	–
	Pilot lamp			RUN (Green), TIMER (Yellow), ECONO (Orange), HI POWER (Green)	–
	Safety equipment			–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D		mm (in)	Liquid line: ϕ6.35 (1/4") Gas line: ϕ12.7 (1/2")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.4m Gas line : 0.35m	–
	Insulation			Necessary (Both sides)	
	Drain hose			Connectable	
	Power source cord			2.5 m (3 cores with Earth)	
	Connection wiring	Size × Core number		1.5 mm² × 3 cores (Including earth cable)	
		Connecting method		Terminal block (Screw fixing type)	
	Accessories (included)			Mounting kit	
	Optional parts			–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	JIS C9612, ISO-T1

(2) The operation data are applied to the 220 V or 240 V districts respectively.

(3) Limitation of Voltage application

Minimum: 198 V Maximum: 264 V

(4) The refrigerant quantity to be charged includes the refrigerant in 7.5 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, (when it is less than 10 m, add 10 g refrigerant per meter and when it is 10 to 15 m, add 30 g refrigerant per meter.)

(5) Expressed in sound pressure level.

Model SRK561CENF-L (Indoor unit)
SRC561CENF-L (Outdoor unit)

Item		Model	SRK561CENF-L	SRC561CENF-L
Cooling capacity(1)		W	5000/5000	
Power source			1 Phase, 220/240V, 50 Hz	
Operation data(1)	Cooling input	kW	2.08/2.18	
	Running current (Cooling)	A	10.2/9.53	
	Inrush current	A	44/48	
	COP (In cooling)		2.40/2.29	
	Noise level(5)	dB (A)	45/45	53/54
Exterior dimensions Height × Width × Depth		mm	275 × 790 × 189	615 × 850 × 290 + 30
Color			Ivory white	Polar white
Net weight		kg	9	52
Refrigerant equipment Compressor types & Q'ty			–	RM5526GNE4 (Rotary type) × 1
Motor		kW	–	1.9
Starting method			–	Line starting
Heat exchanger			Louver fins & tubing	
Refrigerant control			Capillary tubes	
Refrigerant(4)		kg	R22 1.35	
Refrigerant oil		ℓ	0.7 (BARREL FREEZE 32SAM)	
Air handling equipment Fan type & Q'ty			Tangential fan × 1	Propeller fan × 1
Motor		W	23	40
Air flow (at High)		CMM	12/12	34/34
Air filter, Q'ty			Polypropylene net (washable) × 2	–
Shock & vibration absorber			–	Cushion rubber (for compressor)
Electric heater			–	–
Operation control Operation switch			Wireless-Remote controller	–
Room temperature control			MC. Thermostat	–
Pilot lamp			RUN (Green), TIMER (Yellow), ECONO (Orange), HI POWER (Green)	–
Safety equipment			–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D	mm (in)	Liquid line: ϕ6.35 (1/4") Gas line: ϕ12.7 (1/2")	
	Connecting method		Flare connecting	
	Attached length of piping		Liquid line: 0.4m Gas line : 0.35m	–
	Insulation		Necessary (Both sides)	
Drain hose			Connectable	
Power source cord			2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number		1.5 mm² × 3 cores (Including earth cable)	
	Connecting method		Terminal block (Screw fixing type)	
Accessories (included)			Mounting kit	
Optional parts			–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	JIS C9612, ISO-T1

(2) The operation data are applied to the 220 V or 240 V districts respectively.

(3) Limitation of Voltage application

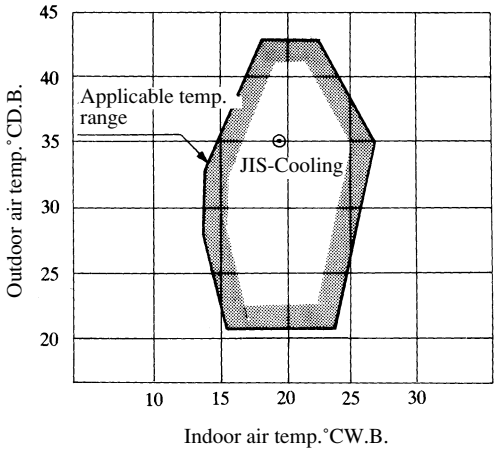
Minimum: 198 V Maximum: 264 V

(4) The refrigerant quantity to be charged includes the refrigerant in 7.5 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, (when it is less than 10 m, add 10 g refrigerant per meter and when it is 10 to 15 m, add 30 g refrigerant per meter.)

(5) Expressed in sound pressure level.

3.2.2 Range of usage & limitations

(1) Inlet air temperature range



Note: The chart is the result from the continuous operation under constant air temperature conditions, however, excludes the initial pull-down stage.

(2) Total one way piping length and vertical height difference.

Item \ Models		All models
Total one way piping length (m)		15
Vertical height difference (m)	Outdoor unit is higher	5
	Outdoor unit is lower	5

(3) Voltage application

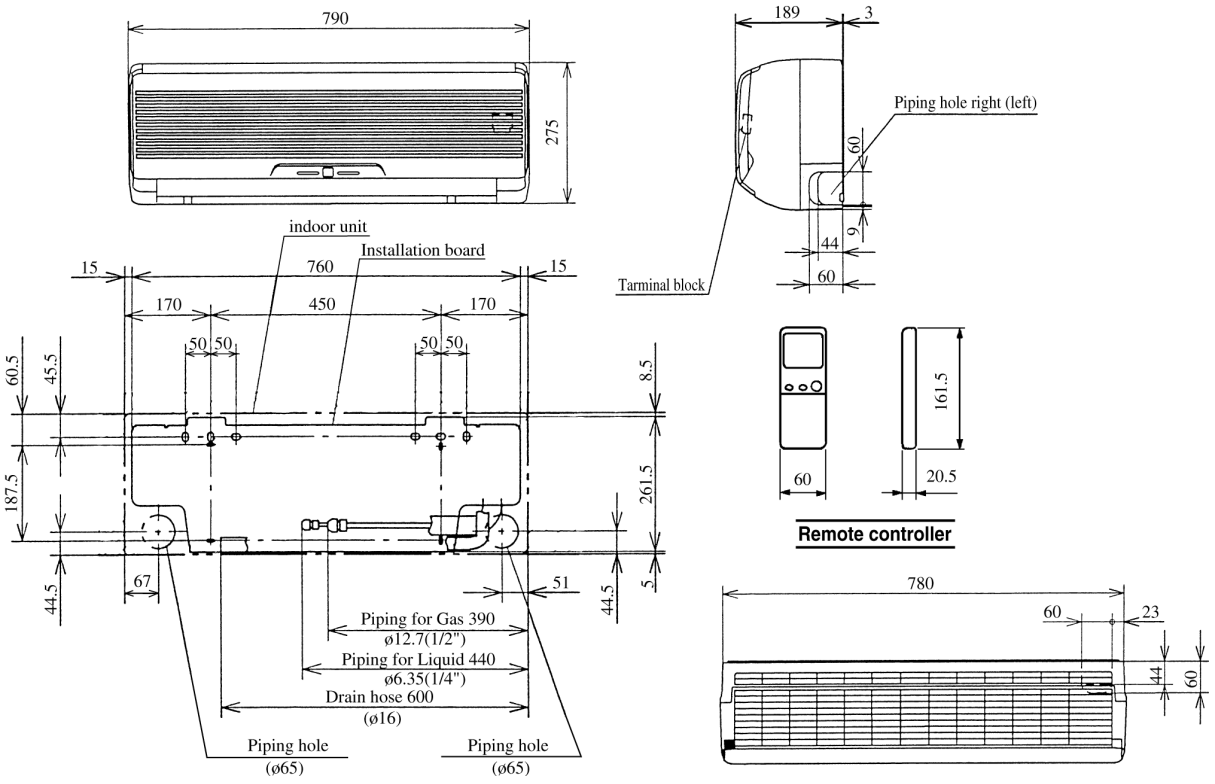
Item \ Models	All models
Minimum (V)	198
Maximum (V)	264

3.2.3 Exterior dimensions

(1) Indoor unit

Models SRK501CENF-L. 561CENF-L

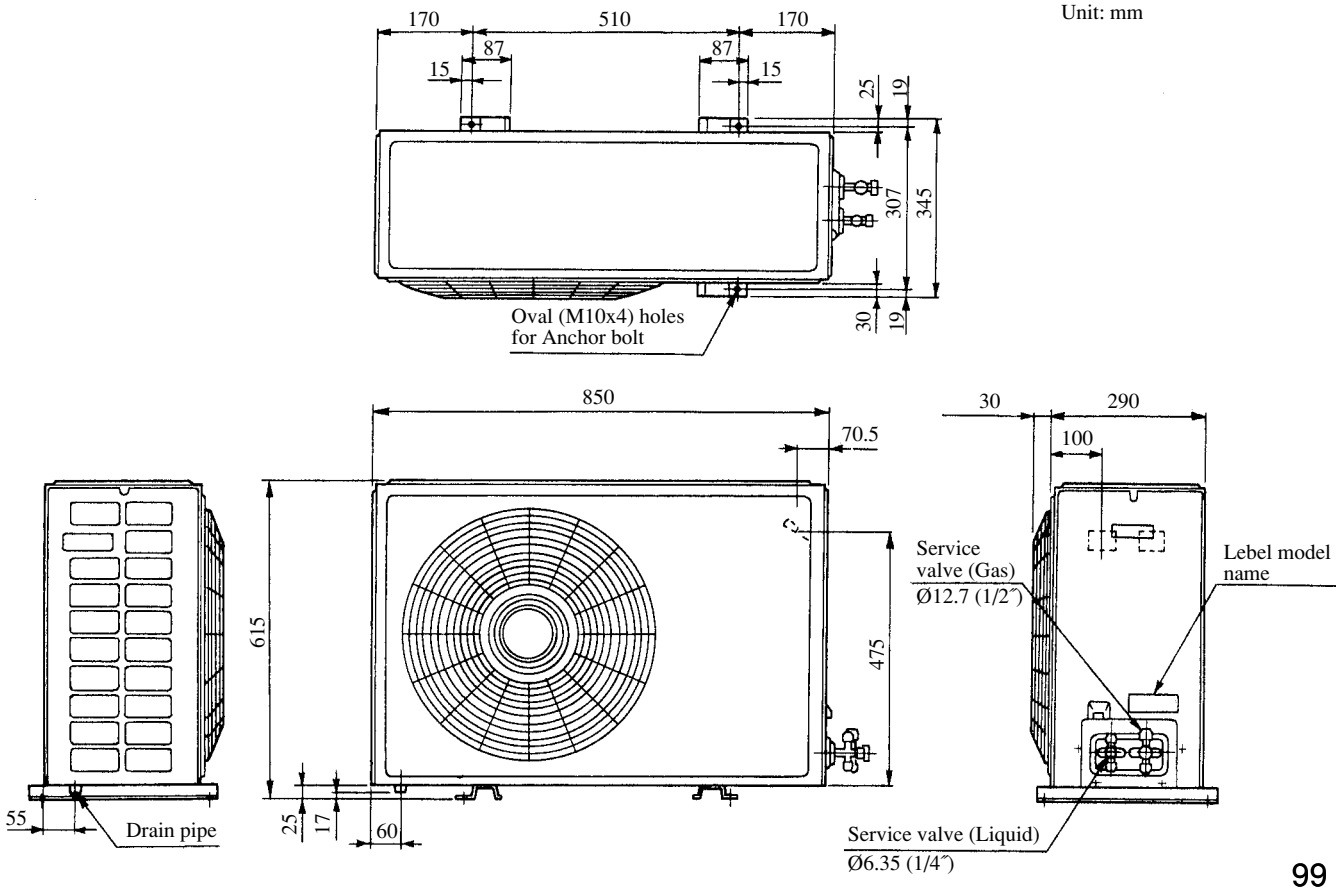
Unit: mm



(2) Outdoor unit

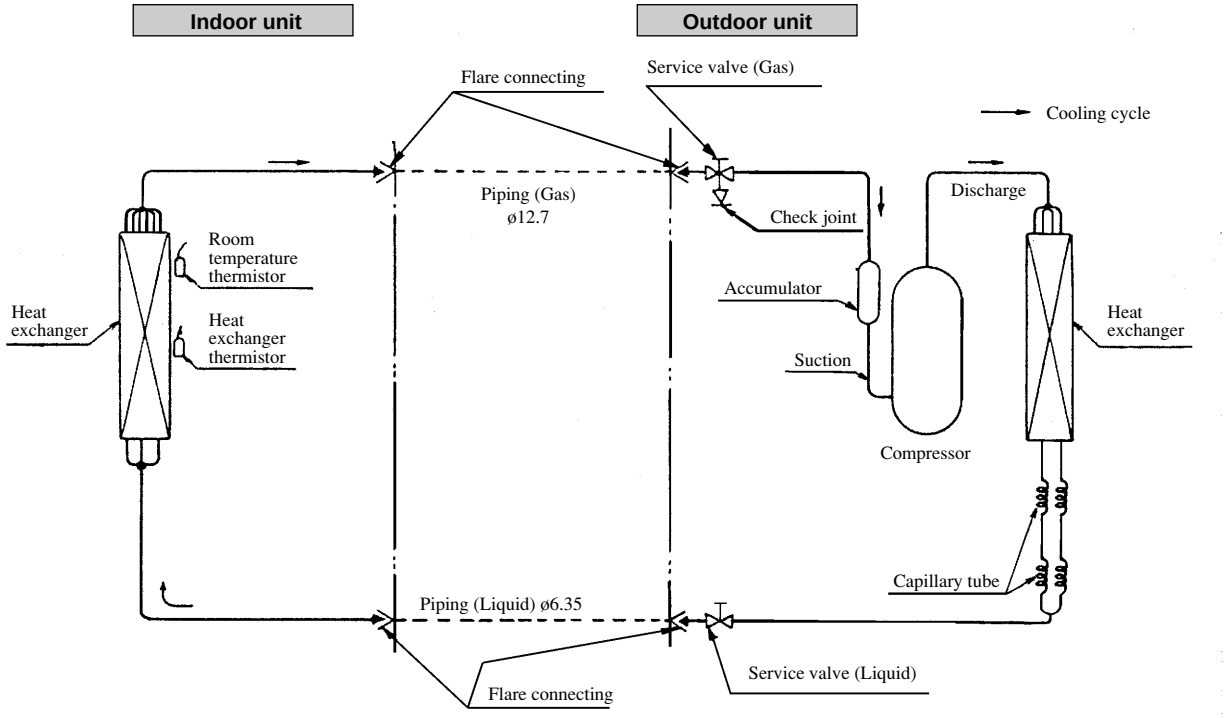
Models SRC501CENF-L, 561CENF-L

Unit: mm



3.2.4 Piping system

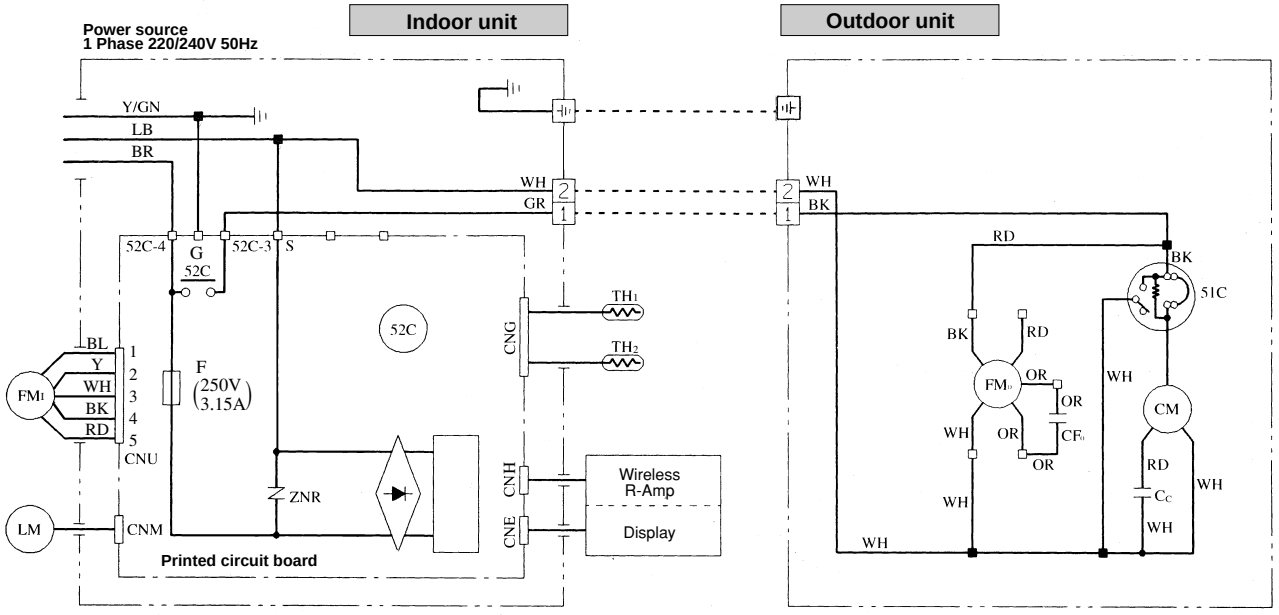
Models SRK501CENF-L, 561CENF-L



3.3 ELECTRICAL DATA

3.3.1 Electrical wiring

Models SRK501CENF-L, 561CENF-L



Color symbol

BK	Black
BL	Blue
BR	Brown
RD	Red
OR	Orange
WH	White
Y	Yellow
LB	Light blue
Y/GN	Yellow/Green

Meaning of marks

Symbol	Parts name	Symbol	Parts name
C_C	Capacitor for CM	**LM**	Louver motor
CF_O	Capacitor for FM_O	**$Th_{1,2}$**	Thermistor
CM	Compressor motor	**ZNR**	Varistor
F	Fuse	**51C**	Motor protector for CM
FM_I	Fan motor (Indoor unit)	**52C**	Magnetic contactor for CM
FM_O	Fan motor (Outdoor unit)		

Table of relay operations

Relay symbol	Control part	Operation: Cooling
52C	**CM**	○

Notes (1) ○: denotes magentized relay ×: denotes demagnetized relay
(2) Th_1 is room temperature thermistor. Th_2 (the heat exchanger thermistor) is frost prevention thermistor.
(for details, refer to pages 74)

3.4 FUNCTIONS

Except for function relating to heating, same at the for SRK heat pump models, See Page 65.

3.5 APPLICATION DATA

The application data for the cooling only models are similar to those for the heat pump models. See Page 77.

3.6 MAINTENANCE DATA

Some at the cooling/heating equipment SRK heat pump models. See Page 85.